	Kostromi	ENP(q)/ENT 3004347 na, N. A.	(m)/BDS AFFTC/ESI	0-3 RM/JD/JG 8/0078/63/008/008/1900/190 5 6	5
			cation ocaplexes o	of rare earth elements with	
SCURCE:	Zhurral 1	neorganichesk	oy khimii, v. 8. no	27	
	ANDE ECUL	acade - 1	gluconic acid, p Er, Yb, Lu, Y	potentiometric titration, Ia,	
and MA2 b, Lu, of rare strength x 10-2	were studio and Y. Con earth chlor of 0.2. I	ed in present estants were ride-gluconic lare earth el	m. The stability of work for Ia, Pr., Note that the determined by potential acid mixtures with ement chloride conc	rare earth elements form comple and two singly-charged gluconstants of the complexes M2-1 Id, Sm, Eu, Gd, Tb, Dy, Ho, Er, atiometric titration on a base temperature of 25C and ion entration was 5 x 10-2 and and 1 : 5. Measurement of pH The stability constants of	
1/2				A compagned Of	

	R: AP3004347						
rt. hass	ar composition onditions state the calculation tables, 3 graph	the and 15 equ	lity complex	is done gr	aphically	origa	
SSOCTATION.	Institut obsider of general and in 190at62						
	190ot62	DATE ACQ:		my of scien	Ces. Ukrs	SR)	
B CODE: P	H, CH	no ref sov			ENCL:		
					OTHER:	006	
2/2							

# Stability constants of the cation complexes of the rare earth elements with gluconic acid. Zhur. neorg. khim. 8 no.8:1900-1905 Ag '63. (MIRA 16:8) (1. Institut obshohey i neorganicheskoy khimii AN UkreSR. (Rare earth compounds) (Gluconic acid)

## KOSTROMINA, N.A.

Complex compounds of rare earth elements with gluconic acid. Rab. po khim. rastv. i kompi. soed. no.3:118-135 162.

Separation of rare earth elements by ion exchange chromatography. Ibid.:136-147 (MIRA 16:8)

YATSIMIRSKIY, K. B.; DAVIDENKO, N. K.; KOSTROMINA, N. A.; TERNOVAYA, T. V.

"Chemical structure determination of lantanides' coordination compounds on the basis of their absorption spectra."

report presented at the 8th Intl Conf on Coordination Chemistry, Vienna, 7-11 Sep 64.

1 15797-65 EMT(n)/EMP(j)/EMP(t)/EMP(b) LJP(c)/ESD(gs)/ESD/AFML/ASD(a)-5/AS(mp)-2/ACCESSION NR: AP4043570 APGC(b) JD/ 3/0078/64/009/008/0793/1802 William

AUTHORS: Yatsimirskiy, K.B.; Kostromina, N.A.

TITLE: The influence of ligand fields on the properties of complexes of the mare earth elements 27

SOURCE: Zhurnal neorganicheskof khimii, v. 9, no. 8, 1964, 1793-1802

TOPIC TAGS: rare earth element complex, ligand field, absorption spectrum, forbital transition, dorbital transition, absorption spectrum splitting, octahedral symmetry group, tetrahedral symmetry group, cubic symmetry group, energy of stabilization, cerium subgroup, yttrium suogroup, ligand field strength

ABSTRACT: The splitting in the absorption spectra of the energy levels of the 4f electrons of rare earth complexes having ligands of different symmetry was investigated. This splitting was noted to have a magnitude of the order of several hundrel cm-1 as compared with the 10,000-20,000 cm-1 found for d-orbital transitions. The f-orbital transitions were postulated as due to transitions to orbitals forming octahedral, tetrahedral, and cubic symmetry groups. The energy of stabilization for these structures can be calculated: Card

L 15797-65

ACCESSION NR: AP4043570

for octahedral complexes, from the formula

$$\Delta E = (\frac{6}{7}n_1 + \frac{1}{7}n_2 + \frac{3}{7}n_3) 14Dq0_h \tag{2}$$

and the second of the second o

where n<sub>1</sub>, n<sub>2</sub>, n<sub>3</sub> represent the number of electrons in the a<sub>21</sub>, t<sub>21</sub>, t states, respectively, and Dq is the ligand field strength; and for tetrahedral and cubic complexes:

$$\Delta E = (3/_1 n_1 - 1/_1 n_2 - 4/_1 n_3) 14Dq * (T_d or 0_h)$$
 (3)

 ${\rm DqT_d}$  is for the tetrahedral complex. The  ${\rm DqO_h}$  for the cubic differs from  ${\rm DqO_h}$  for the octahedral complexes. Designating the quantities in parentheses by  $\rho$ , then in aqueous solution

$$\Delta E' = \rho_A 14Dq_A - \rho_{H_0} 14Dq_{H_0} \tag{7}$$

where  $\rho$  is determined from the geometric configuration of the complex and the electron structure of the central ion and Dq and Dq is the field strength for the ligand and for water.  $\Delta E'$  can also be represented by

$$\Delta E' = 2.3RT \left( \lg K_{yer} - \lg K'_{yer} \right) \tag{10}$$

Card 2/3

L 15797-65 ACCESSION NR: AP4043570

where  $K_{equil}$  is the experimentally determined equilibrium constant and  $K_{equil}$  is a value graphically obtained by interpolation of a straight line connecting the values for La, Gd, and Lu. Thus  $\Delta Dq$  can be calculated from

 $\Delta E' = \rho 14 \Delta Dq \tag{11}$ 

provided p does not change. Values obtained for A Dq (energy changes) agree well with spectroscopic values for the cerium group. A series of ligands was arranged according to increasing field strength for elements of the cerium group. This series differed for ligands of the yttrium group elements where the Dq values were less than for the cerium groups. Orig. art. has: ll equations, 6 figures and l table.

ASSOCIATION: None

SUBMITTED: 30Jan63

ENOL: 00

SUB CODE: IC, GP

NR REF SOV: 031

OTHER: 008

Card 3/3

KOSTROMINA, N.A.; ROMANENKO, E.D.

Gluconate complexes of scandium. Ukr. khim. zhur. 31 no.4:
332-338 '65. (MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

KOSTROMINA, N.A.

Constants of acidic dissociation of rare-earth gluconates. Zhurneorg. khim. 10 no.6:1369-1373 Je '65. (MIRA 18:6)

YATSIMIRSKIY, K.B.; DAVIDENKO, N.K.; KOSTROMINA, N.A.; TERNOVAYA, T.V.

Determination of the chemical structure of lanthanide coordination compounds based on their absorption spectra. Teoret. i eksper. khim. 1 no.1:100-105 Ja-F '65. (MIRA 18:7)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev.

NIFE TO THE PROPERTY OF THE PR

### TERNOVAYA, T.V.; KOSTROMINA, N.A.

Splitting of bands in the absorption spectra of neodymium and europium in the ligand field during complex formation. Zhur. neorg. khim. 10 no.9:2023-2029 S 165. (MIRA 18:10)

L 10458-66 EWT(m)/EWP(1)/T/EWP(t)/EWP(b) IJP(c) JD/JG/RM

ACC NR: AP6000284 SOURCE CODE: UR/0078/65/010/009/2023/2029

ORG: none

AUTHOR: Ternovaya

TITLE: Band splitting in absorption spectra of neodymium and europium in the field of ligands during complex formation

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 9, 1965, 2023-2029

TOPIC TAGS: neodymium, europium, band spectrum, absorption spectrum, complex molecule, line splitting RARE EARTH METAL

ABSTRACT: The splitting of the ground level of neodymium  $^4$ I  $_{9/2}$  and of the excited level of curopium  $^5$ D $_2$  was studied in chlorides and in solutions of nitrilotriacetate (NTA),  $^{9/2}$  ethylenediaminetetraacetate (EDTA), and diethylenetriaminepentaacetate (DTPA) complexes. A KSA-1 spectrograph with glass optics was used. Identification of the splitting pattern of the ground level of Nd $^{3+}$  (obtained at 430 nm), analysis of the spectrum, and consideration of the intensities of the components of the splitting made it possible to determine the absorption spectra of neodymium for all the complexes studied. From the number of splitting sublevels it was found that aquo ions and complexes with EDTA have a tetragonal symmetry, and complexes with NTA and DTPA have a trigonal symmetry. Probable structural formulas of the complexes are proposed. Orig. art. has: 9 figures and 3 tables.

SUB CODE: 07,22/ SUBM DATE: 13Apr64 / ORIGREF: 003 / OTH REF: 011

Card 1/1 (2) UDC: 546,657,3:535,343+546,661,3:535,343

SHKOLYAR, L.F.; MAMONTOV, N.V.; GOL'DEVICH, A.A.; MAYOROVA, Z.V.; KOSTRO-MINA, N.V.; KUTYAVINA, V.M.; ROMALIS, F.I.; KAPLINSKAYA, L.G., red.; DROZHZHINA, L.P., tekhn. red.

TO STATE OF THE ST

[Transactions of the Soviet Antarctic Expedition] Trudy Sovetskoi antarkticheskoi ekspeditsii, 1955. Leningrad, Izd-vo "Morskoi transport." Vol.23. [Second Continental Expedition, 1956-1958; observational data] Vtoraia kontinental naia ekspeditsiia, 1956-1958 gg.; tional data] Vtoraia kontinental naia ekspeditsiia, 1956-1958 gg.; materialy nabliudenii. Pod red. L.V.Dolganova. 1961. 277 p. (MIRA 14:11)

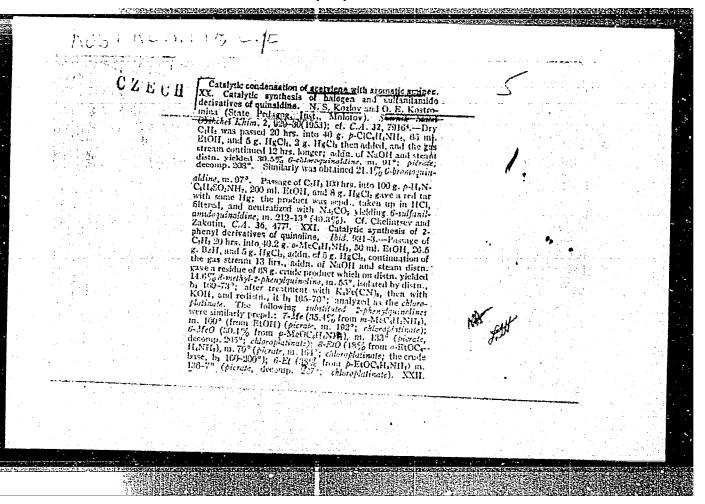
1. Sovetskaya antarkticheskaya ekspeditsiya, 1955. 2. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for all except Kaplinskaya, Drozhzhina).

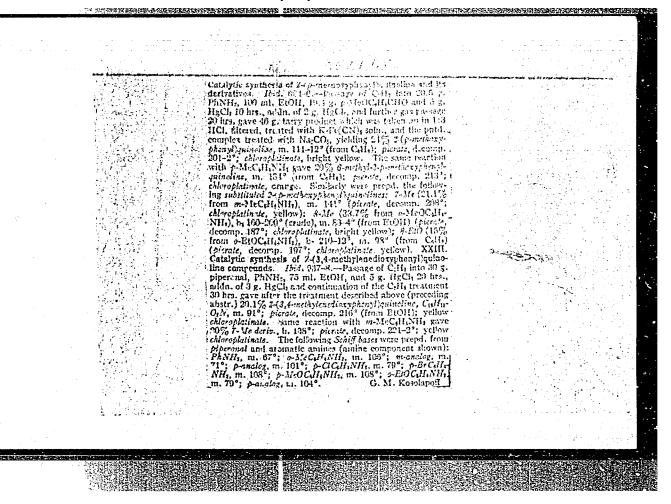
(Antarctic regions—Solar radiation)

KOSTROMINA, O. Ye and Kozlov, N.

Catalytic Condensation of Acetylene with Aromatic Amines. XXII. Catalytic Synthesis of 2- (p-Methoxphenyl) -Quinoline and its Derivatives, page 934. Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Molotov State Pedagogical Inst.





5.3900,5.3600

78258 SOV/79-30-3-12/69

**AUTHORS:** 

Shestakovskiy, M. F., Kostromina, O. Ye.

TITLE:

Investigation in the Field of Precursors and Fragments of Antibiotics. III. Condensation of Trichlorobutadienc

With Methyl a-Chloroacrylate

PERIODICAL:

ABSTRACT:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp 781-784 (USSR)

Condensation of 1,2,3-trichlorobutadiene with methyl  $\alpha$ -chloroacrylate in 6:1 molar ratio at  $60^\circ$  C, in the presence of hydroquinone, gave the new methyl ester of 1,3,4,5-tetrachloro-  $\Delta^3$ -cyclohexenoic acid (I, yield 70.4% based on the acrylate). The adduct I was obtained in two stereoisomeric forms: the liquid form (bp 1200 C at 5 mm), from which the crystalline form (mp 31.5° C) separated on standing. The presence of ester (II) was not detected.

Card 1/3

Investigation in the Field of Precursors and Fragments of Antibiotics.III. Condensation of Trichlorobutadiene With Methyl Q -Chloroacrylate

78258 S0V/79-30**-**3-12/69

Card 2/3

Investigation in the Field of Precursors and 78258 Fragments of Antibiotics III. Condensation of SOV/79-30-3-12/69 Trichlorobutadiene With Methyl CL-Chloroacrylate

There are 6 references, 3 U.S., 1 German, 2 Soviet. The U.S. references are: U.S. Pat. 2712517 (1955); G. J. Berchet, W. C. Carothers, J. Am. Chem. Soc., 55, 2004 (1933); C. Marvel, ibid., 61,3156 (1939).

ASSOCIATION:

All-Union Scientific Research Institute for Antibiotics (Vsesoyuznyy nauchno-issledovatel'skiy institut anti-

biotikov)

SUBMITTED:

June 23, 1959

Card 3/3

KOSTROMINA, O.Ye.; SHOSTAKOVSKIY, M.F.; VASILIYEVA, N.Ye.

Synthesis of the precursors and fragments of antibiotics. Part 5: Synthesis of di- and trihaloderivatives of cyclohexenecarboxylic acid. Zhur.ob.khim. 31 no.5:1458-1462 My \*61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(Cyclohexenecarboxylic acid)
(Antibiotics)

KOSTROMINA, O.Ye.; RABINOVICH, M.S.

Synthesis of procursors and fragments of antibiotics. Part 10: Synthesis of half-esters of A-phenoxyadipic and phenoxymalomic acids. Zhur. ob. khim. 33 no.5:1658-1660 My 163. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov.
(Adipic acid) (Malonic acid)

STRUKOV, I.T.; TEBYAKINA, A.Ye.; INOZELTSEVA, I.I.; KOSTROMINA, O.Ye.; KAMOKINA, Z.F.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.; DRUZHININA, Ye.N.

2,6-dimethoxyphenyl penicillin (methycillin) and its microbiological study. Antibiotiki 8 no.8:690-694 Ag '63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

MEL'KANOVITSKIY, I.M.; KOSTROMINA, R.A.

Using geophysical data for mapping folds in the basement of the Tashkent trough. Uch.zap.SAIGIMS: no.5:119-125 161. (MIRA 15:11) (Tashkent region-Folds (Geology)--Maps)

<u>L 33334-66</u> EWT(m)/EWP(j) RM

ACC NR: AP6021776

SOURCE CODE: UR/0413/66/000/012/0036/0036

INVENTOR: Kuznetsov, Ye. V.; Ignat'yeva, E. K.; Kostromina, S. Ya.

27 B

ORG: none

TITLE: Preparative method for nitrogen and phosphorus-containing organotitanium compounds. Class 12, No. 182722 [announced by Kazan Chemical Technology Institute im. S. M. Kiroy (Kazanskiy khimiko-tekhnologicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 36

TOPIC TAGS: organotitanium compound, nitrogen containing organotitanium compound, phosphorus containing organotitanium compound, titanium compound

ABSTRACT: An Author Certificate has been issued for a preparative method for nitrogen and phosphorus-containing organotitanium compounds. Bis-(2-hydroxyethoxy)-bis-(aminoethyl)-titanium is reacted with derivatives of methylphosphonic acid substituted in methyl in a solvent. Hydroxymethylphosphonic acid is used as a derivative of the substituted methylphosphonic acid for preparing new compounds. [BN]

SUB CODE: 07/ SUBM DATE: 03May65/ ATD PRESS;5026

Cord 1/1 ULR

UDC: 547.419.1'258.2.07

USSR/Medicine/Immunology

FD-2953

Card 1/1

Pub. 17-17/23

Author

: Kostromina, Ye. Ye.

Title

. Effect of vagotomy on the formation of agglutinins during enteral

vaccination

Periodical

: Byul. eksp. biol. i med. 7, 60-62, July 1955

Abstract

: Author experimented on rabbits to determine the effect of bilateral vagotomy below the diaphram on the formation of antibodies realizing at the same time, that vagotomy does not completely eliminate the innervation of the gastrointestinal tract by the parasympathetic system (fibers of the sacral region, posterior roots of the spinal chord etc.). 25 to 30 days after the operation the animals were given the vaccine per os. The blood was examined after various lengths of time following vaccination. No antibodies were found. There was no difference in the antibody formation of the control rabbits and those that had been operated on because, during the enteral immunization, a natural disturbance of the innervation existed at the locus of primary application of the antigen. No references. Graphs.

Institution

: Experimental Laboratory, Molotov Scientific-Research Institute of

Vaccines and Sera (Dir A. P. Kobyl'skiy; Scientific Leader Prof.

G. V. Peshkovskiy.)

Submitted

: 27 Dec 1954

# KOSTROMINA, Ye.Ye.

Some data on the epidemiology of Q fever in the Western Urals. Zhur. mikrobiol. epid. i immun. 33 no.10:140-141 0'62 (MIRA 17:4)

1. Iz Permskogo instituta vaktsin i syvorotok.

KOSTROMINA, Ye.Ye.

Use of a combined egg-tissue method for culturing Rickettsia burneti in the production of antigen Q. Tab. delo 7 no.1:42-43 Ja '61.

(MIRA 14:1)

1. Rikketsiosnaya laboratoriya Permskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok.

(ANTIGENS AND ANTIBODIES) (RICKETTSIA)

NTIGENS AND ANTIBODIES) (RICKETTSIA)
(BACTERIOLOGY\_\_CULTURES AND CULTURE MEDIA)

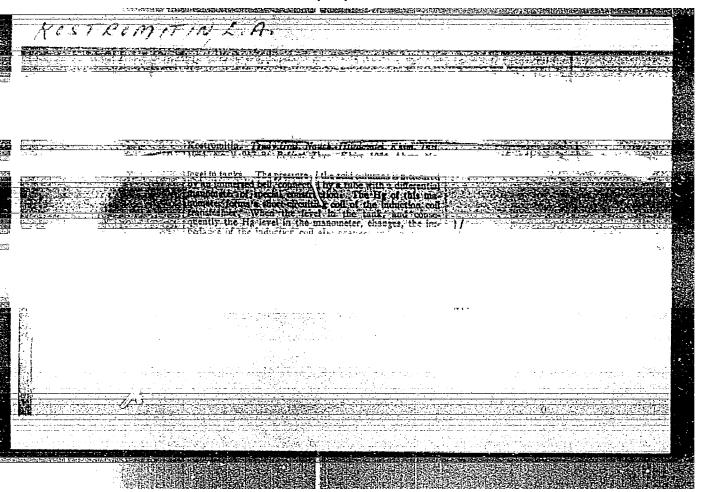
KOSTROMITIN, L. A.

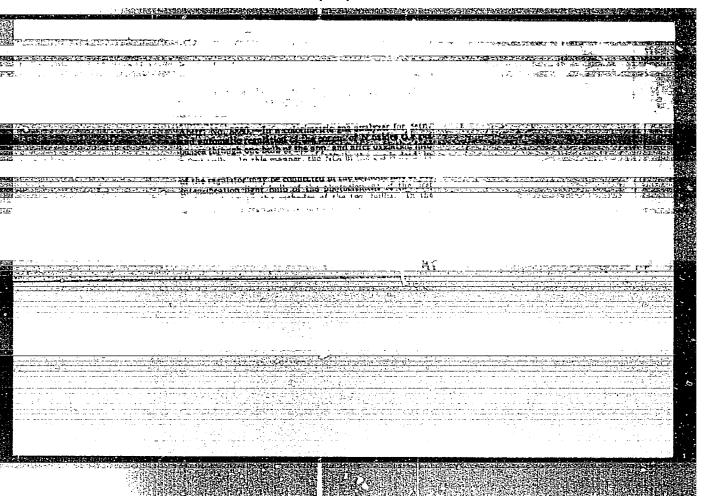
G.M. Fialko and L.A. Kostromitin. A laboratory device to measure the concentration of sulfuric acid and oleum. P. 1268

TO CONTROL OF THE PROPERTY OF

Ural Scient. Res. Inst. of Chemistry

-SO: Factory Laboratory, No. 10, 1950





TO THE PERSON OF بر FD-2752 USSR/Chemistry - Sulfuric acid Pub. 50 - 13/20 Card 1/1 : Andreyev, A. F. (deceased), Cand Tech Sci; Kostromitih, L. A. Authors : Automatic control of the feeding of flotation pyrite into Title furnaces Periodical : Khim. prom. No 5, 297-298, Jul-Aug 1955 : Describes an automatic control set-up for regulation of the Abstract rate of feeding of pyrite dust into furnaces depending on the concentration of the sulfur dioxide coming out of the furnaces. Three graphs, one figure. : Ural Scientific Research Chemical Institute Institution

Restronitin, L.A.

AUTHORS:

Pefelov, A.I., Kostromitin, L.A.

32-11-49/60

TITLE

A Device for the Determination of the Velocity of the Fall of Particles of Finely Dispersed Materials (Ustanovka dlya opredeleniya skorosti padeniya chastits melkodispersnykh materialov)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1392-1393 (USSR)

ABSTRACT:

As the fine grains of material are mostly not round, their falling speed can be determined only by means of an experiment. For this purpose a device fitted with an oscillograph may be used, which is also recommended in this paper. It consists of a vertical tube which, in its upper part, has a closing device with a funnel. Through the funnel the substance to be tested is introduced in form of powder, after which it falls on to the camera with a photoelement which is located below it. The photocurrent is fixed upon the film of the oscillograph. For the illumination of the photoelements 6 incandescent bulbs are provided in the upper part of the camera, which is supplied with current by means of a battery. As soon as the particles of the sample substance supplied through the funnel begin to fall, exposure of the photoelement remains unchanged until the particles begin to settle upon the glass plate arranged immediately above the photoelements thus

Card 1/2

CIA-RDP86-00513R000825230002-APPROVED FOR RELEASE: 06/14/2000 32-11-49/60 A Device for the Determination of the Velocity of the Fall of Particles of Finely Dispersed Materials

> preventing the light of the 6 bulbs from illuminating it, which, gradually, leads to a reduction of the current in the photoelements. This process goes on until all particles have fallen onto the glass plate, after which uniform (reduced) illumination of the photoelements again sets in. The line of the oscillograph on this occasion first shows a horisontal, and later a downward curved, and finally again a horisontal direction. The speed of fall of the particles can herefrom therefore be computed. In this connection the path taken by the particles in the tube until they reached the glass plate and the beginning and ending of the process of their settling upon the glass plate is taken into account. There are 2 figures.

ASSOCIATION: Uralin . Scientific Research Institute issledovatel'skiy institut)

(Ural'skiy nauchno-

AVAILABLE:

Library of Congress

Card 2/2

TROFIMOV, S.S., kand. sel'khoz.nauk, st. nauchn. sotr.; ERYLEV, V.K.; KOCHERGIN, A.Ye., kand. sel'khoz. nauk; KUZNETSOVA, L.Z.; KORLYAKOV, J.I., kand. sel'khoz. nauk, st. nauchn. sotr.; KOSTROMITIN, V.B.; MIKHAYLOV, M.I.; POPOV, P.D., red.

[Soils of the Kuznetsk Basin, a map as the face of a field, laboratory of fertility, vitamins of the earth, protectors of crops, enrichment of feed] Pochvy Kuzbassa, karta — litso polei, laboratoriia plodorodiia, vitaminy zemli, zashchitniki posevov, obogashchenie korma. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1964. 92 p. (MIRA 18:5)

1. Biologicheskiy institut Sibirskogo otdeleniya AN SSSR (for Trofimov). 2. Zaveduyushchiy laboratoriyey zashchity rasteniy Kemerovskoy sel'skokhozyaystvennoy opytnoy stantsii (for Kostromitin). 3. Zaveduyushchiy otdelom zhivotnovodstva Kemerovskoy sel'skokhozyaystvennoy opytnoy stantsii (for Mikhaylov). 4. Zaveduyushchiy agrokhiimicheskoy laboratoriyey Sibirskogo nauchno-isaledovatel'skogo instituta sellekogo khozyaystva (for Kochergin). 5. Zaveduyushchaya agrokhimicheskoy laboratoriyey Kemerovskoy sel'skokhozyaystvennoy opytnoy stantsii (for Kuznetsova). 6. Kemerovskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Korlyakov).

\*\*KOSTROMITINOV, N. M.

"Taking of marrow puncta from calves."

Vetorinariya, Vol. 37, No. 1, 1960, p. 46

\*\*Dmak Vet Dash\*\*

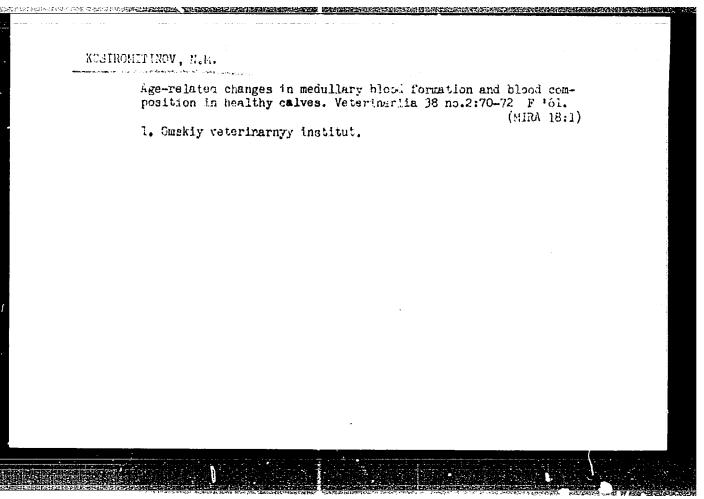
KOSTROMITINOV, N. M. (Omsk Veterinary Institute)

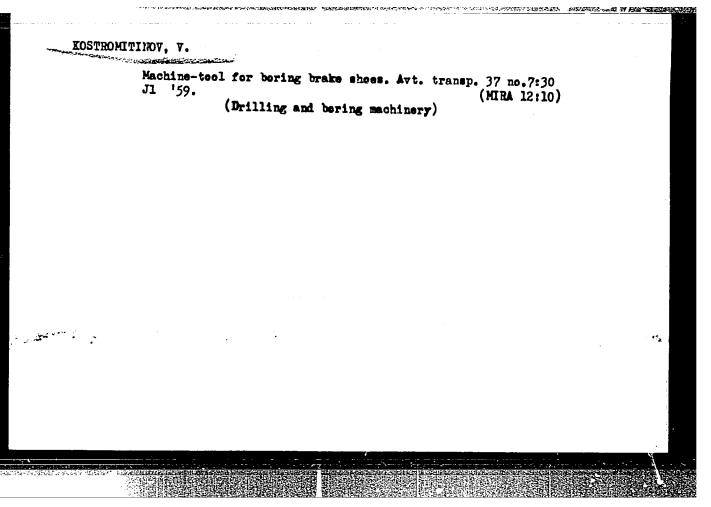
"Age-conditioned changes of the blood formation in bone marrow and blood composition of healthy calves".

Veterinariya, Vol. 38, No. 2, 1961, p. 70.

KOSTROMITINOV, N. M., Cand. Veter. Sci. (diss) "Growth Changes of Marrow Blood-formation and Composition of Blood in Healthy and Sick Calves," Khar'kov, 1961, 17 pp. (Khar'kov Zoovet. Inst.) 150 copies (KL Supp 12-61, 281).

Obtaining a marrow pu Ja '60.	inctate in calves.	Veterinariia	37 no.1 (MIRA	146-48 16:6)			
1. Omskiy veterinarny	1. Omskiy veterinarnyy institut. (Punctures (Medicine))						
			ý.	1			
				:			





#### KOSTRONOV I. A.

Novye isaledovamiia o venosnykh klapanakh i kritika uchemiia Baradelebena. Amecent research in venoub valves and criticism of Bardeleben's theory. Arkh. pat., Moskva 12:3 May-June 50 p. 79-81.

 Of the Surgical Vestyegonsk Hospital (Head -- I. A. Kostromov), Vestyegonsk.

CLYL 19, 5, Nov 50

# KOSTRONOV, I.A.

Juvenile form of venous valves. Vest.khir. 70 no.2:20-25 I 150. CLML 19:3)

1. Of Ves'yegonsk Municipal Hospital (Head Physician -- I.A.Kostromov)

KOSTROMOV, I.A.

Role of venous valves in formation of variouse veins. Khirurgiia, Moskva no. 1:50-46 Jan 1953. (CLML 24:2)

1. Of Ves'yegonsk Surgical Hospital (Head -- I. A. Kostromov).

KOSTROMOV, I. A. Cand Med Sci -- (diss) "Venous Valves."

Smolensk, 1956. 18 pp 2C cm. (Min of Health RSFSR, Smolensk State Medical Inst), 130 copies (KL, 19-57, 88)

- 21 -

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825230002-9

USSR / Human and Animia Morphology, Mormal and Pathologic -- Cardiovascular System

Abs Jour: Ref Zhur-Biol., No 13, 1958, 59863

Author : Kostromov, I. A.

Inst : Not given

Title : Are There Valves in the Portal System

Orig Pub: Vrachebn. delo, 1956, No 9, 933-934

Abstract: The valvular apparatus in the portal system was examined in 60 human corpses of varying ages by injecting the vessels with solutions of different dyes or by examining the vascular intima under a magnifying lens. No valves were found in the portal system (including the veins of the intestinal walls) in any case. --I. B. Barabash

Card 1/1

- 1. KOST APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825230002
- 2. USSR (600)
- 4. Varix
- 7. Role of venous valves in the etiology of varicose veins. Khirurgiya, No. 1, 1953.

SOLDATENKOV, P.F.; KOSTRONSKAYA, F.A.; YAKOVLEVA, K.K.

The second secon

Effect of gamma rays from a 20 Mev. betatron and from Co<sup>(1)</sup> on the cellular elements and blood sugar in rabbits.Dokl. AN SSSE 108 no.6:1065-1068 Je '56. (NUMA 9:10)

1. Ural'skiy filial Akademii nauk SSSE, Fredstavleno akademikom L.A. Orbeli.

(GAIGIA NATS-PHYSIOLOGICAL EFFECT)

41846

27.1220

S/205/62/002/004/006/014 I015/I215

AUTHOR:

Kostromskaya, V.A.

TITLE:

Effect of ionizing radiation on carbohydrate and

lactic acid metabolism in the liver of rats

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 558-560

TEXT: The various aspects of carbohydrate metabolism in the liver of irradiated animals have not been sufficiently studied. Experiments were carried out on 107 albino rats which were irradiated during one hour with 800r gamma-rays from a FYT-Co<sup>60</sup> (GUT-Co<sup>60</sup>) apparatus. The first signs of radiation sickness appeared 48 hours after irradiation: the body weight decreased by 4%, diarrhea appeared, and the defence reflexes were markedly depressed. Significant changes in the carbohydrate contents of the liver were not however revealed at that time. The lactic acid contents increased in the irradiated animals! liver by 28% on the second day, and decreased markedly (32%) on the third day after irradiation.

Card 1/2

S/205/62/002/004/006/014 I015/I215

Effect of ionizing radiation ...

Histochemical determination of glycogen showed its progressive decrease during the development of radiation sickness - 26% on the second day and 97% on the third day after irradiation. Thus the enzyme systems involved in the carbohydrate metabolism were not yet affected by radiation during the first 24 hours. An increased anaerobic degradation was observed on the second day. The mechanism of changes observed during the third day after irradiation have not yet been clarified. There are 4 tables.

iK

ASSOCIATION:

Sverdlovskiy meditsinskiy institut (Institute of

Medicine, Sverdlovsk)

SUBMITTED:

February 13, 1961

Card 2/2

ACCESSION NR: AR4027227

S/0299/64/000/002/M014/M014

SOURCE: RZh. Biologiya, Abs. 2M72

AUTHOR: Barbarin, V. V.; Gubin, G. D.; Kostromskaya, V. A.

TITLE: (2M72) Effect of ionizing radiation on tissue respiration. Indices of nucleic acid and glycogen in the process of regeneration.

SOURCE: Sb. tr. Sverdl. med. in-t, vy\*p. 39, 1963, 26-37

TOPIC TAGS: radiation, radiation sickness, respiration, tissue respiration, tissue regeneration, nucleic acid

ABSTRACT: In the regenerating planaria Dendrocoelium lacteum and Planariaforva, exposed or unexposed to irradiation (700 r) the authors determined
respiratory quotient by the Warburg method, ribonucleic acid by the method of
Brachet, and glycogen by the method of Shabadash. It was shown that during
regeneration of exposed and unexposed animals, oxygen consumption decreased, and
respiration in both groups of animals was characterized by a high level of the
aerobic portion of oxido-reductive processes. In the early stages of regeneration, the amount of ribonucleic acid in the cytoplasm increased and the glycogen
Card 1/2

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ACCESSION NR:	AR4027227	S		ė.	
became normal,	due to increased g y changes leading t	iation predominate lycogen and decrea o regeneration are	sed RNA. Th	e authors be	o lieve
SUB CODE: LS		DATE ACQ: 14Fe	ъ64	ENCL: 00	
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ACCESSION NR: AR4025764

S/0299/64/000/003/P059/P059

SOURCE: RZh. Biologiya, Abs. 3P393

AUTHOR: Barbarin, V. V.; Gubin, G. D.; Kostromskaya, V. A.

TITLE: (3P393) The effect of ionizing radiation on oxidation-reduction processes, the dynamics of carbohydrate metabolism, and nucleic acids in frog liver

SOURCE: Sb. tr. Sverdl. med. in-t, vy\*p. 39, 1963, 38-43

TOPIC TAGS: radiation, radiation sickness, cell respiration, carbohydrate metabolism, DNA, nucleic acid, liver

ABSTRACT: In experiments on frogs (Rana ridibunda) subjected to ionizing radiation at doses of 1000, 1500, and 2000 r, the following were determined: RNA content by the method of Brachet, DNA by the Feulgen method, glycogen by the Shabadash method, and the qualitative and quantitative respiratory quotients of the hepatic cells on addition of KCN as an inhibitor of oxygen consumption. Normally, 58.6% of the intracellular respiration of liver cells proceeds via a pathway which is inhibited by cyanide, and this is completely blocked 1 day

Card 1/2

ACCESSION NR: AR4025764

after irradiation. Similar decreases in cellular DNA and glycogen and increases in RNA were observed 18 hours after irradiation and on subsequent days (up to and including day 16). This decrease in the role of the cyanide-inhibited portion of the cospiratory chain, plus the decrease in glycogen reserves observed after irradiation, has led to the hypothesis that a hypoxic state is developed, with increased glycolytic metabolism.

SUB CODE: LS

DATE ACQ: 27Feb64

ENCL: 00

Card 2/2

VORONOV, B.; KOSTROMTSOV, V.

Exhibits relate.... Prof.-tekh. obr. 18 no.7:31-32 Jl '61.

(MIRA 14:7)

(Vocational education)

KOSTRON, KAREL.

Chov kozusinovych zvierat. (Vyd. 1) Bratislava, Statne podohospedarske nakl., 1954. 340 P. (Breeding of fur-Bearing animals. 1st ed) DA Not DLC

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

KOSTRON, KAREL.

Chov kozesinovych zvirat. [ Wyd. l.] Praha, Statni zemedelske nakl., 1955. 351 p. [ The breeding of fur-bearing animals. lst ed.]

DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, V1. 6, no. 10, October 1957. Uncl.

Card APPROVED FOR RELEASE: 06/464/2000 CIA-RDP86-00513R000825230002

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-

CIA-RDP86-00513R000825230002-9

KOSTROV, A. I.

124-1957-10-12155

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 133 (USSR)

AUTHOR:

Kostrov, A. I.

TITLE:

The Behavior of a Criss-crossed Wooden Plank Wall Subjected

本的《中国》,但是国际的大学,在中国的国际政策的基础的特殊的基础的,但是是国际的政策的关系,但是是国际的对比,也是是国际的对比,也是是国际的国际的对于国际的国际的

to Shear (Rabota perekrestnoy doshchatoy stenki na sdvig)

PERIODICAL:

V sb.: 15-ya nauch. konferentsiya Leningr. inzh.-stroit.

in-ta, Leningrad, 1957, pp 63-64

ABSTRACT:

Bibliographic entry

Card 1/1

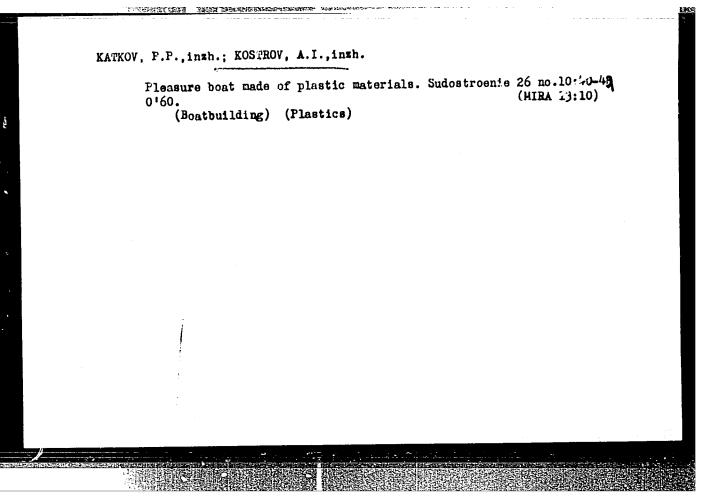
KATK , Pavel Pavlovich; KOSTROV, Aleksey Ivanovich; FAYNEERG,

voim Davidovich [deceased]; AVRUKH, E.G., inzh.

retsenzent; IVOCHKIN, V.F., inzh., retsenzent; SMIRNOV,

V.I., nauchn. red.; SMAKHNOVA, V.M., red.

[Motorboats and launches made of plastics] Shliupki i katera iz plastmass. Leningrad, Izd-vo "Sudostroenie," 1964. 263 p. (MIRA 17:6)



KOSTROV, A. N.

Hoisting Machinery

Hoisting of girders using wall contilevers. Mekh. trud. rab., 6, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

FDN/WW/DI L 00726-67 EWI(1)/EWI(n)/ISOURCE CODE: ACC NR: AP6022849 UR/0113/66/000/004/0001/0003 AUTHOR: Kostrov, A. V. (Candidate of technical sciences); Kunyavskiy, B. M.; Yershov, v. v. ORG: Moscow Automechanical Institute (Moskovskiy avtomekhanicheskiy institut) TITLE: Transfer of heat to the lubricating oil in engines SOURCE: Avtomobil'neya promyshlennost', no. 4, 1966, 1-3 TOPIC TAGS: heat transfer, vehicle engine, lubricating oil, vehicle engine cooling system ABSTRACT: The authors consider transfer of heat to the lubricating oil in automotive engines under various operating conditions since the lubrication system has become an important factor in lengthening the service life of engines in view of the recent tendency toward increased engine power by raising the efficiency of the combustion cycle and increasing the rpm. Heat is transferred to the oil from components heated by friction and gases and from gases which leak into the crankcase through imperfections in the piston rings. The third factor (leakage of hot gases into the crankcase) was not taken into consideration in analyzing the components of heat transfer as it was assumed that the same quantity of heat is dissipated into the ambient atmosphere from the lower walls of the crankcase during stand testing. Heat transfer to the crankcase oil in the MZMA-408 and ZIL-130 engines was experimentally studied in the Automobile and Tractor Engine Laboratory of the Moscow Automechanical Institute. The two engines were stand tested for approximately the same number of hours corresponding to an automobile trip UDC: 536.24.621.431.73 1/2 Card

L 00726-67

ACC NR: AP6022849

or 8000 km. The oil cooling system and measuring equipment are described and a diagram is given showing points of measurement. The oil temperature was measured by thermocouples mounted in the oil lines entering and leaving the engine. The readings were recorded by an automatic potentiometer. Provision was made for controlling the flow of water and oil through the cooling system and for controlling and monitoring the oil pressure. Results for the MZMA-408 engine operating at 2200 rpm show an increase in heat transfer to the lubricating oil from 1250 Kcal/hr under idling conditions to 1500 Kcal/hr under full load, i. e. 20%. The corresponding increase in fuel consumption was from 2.0 kg/hr under idling conditions to 6.4 kg/hr under full load. The relative heat transfer, i. e. the ratio between the heat transferred to the oil and the total heat generated during fuel combustion, is reduced from 0.06 under idling conditions to 0.02 under full load. The relative heat transfer for the ZIL-130 engine varies from 0.012 to 0.024. Thus the experimental results show that 1.2-2.5% of the heat generated during fuel combustion is transferred to the oil in automobile engines under load. A reduction from full load to idling conditions increases this heat transfer to 4-6%. This indicates that most of the heat transferred to the oil is due to friction. About 80% of the heat from gases in the combustion chamber is transferred to the cooling system, and only 20% is dissipated into the lubricating oil. This component represents only 20-25% of the total heat transferred to the oil. Orig. art. has: 2 figures, 1 table.

SUB CODE: 13, 21/ SUBM DATE: none/ ORIG REF: 005

Card 2/2 afs

Card 1/2

UDC: 621.431.73.001.4

APPROVED PCIENCLEASE: 967 147 2000 COA-RDP86-005 SR0008252800

# ACC NR: AP7003517

the cooling water reduced the exhaust valve temperature from 490 to 290C; the weight charge of the cylinder was increased by 5.2%; the slight thinning of the fuel mixture had no effect; other engine parts temperatures did not change; for smooth operation the timing had to be advanced 60; the power was increased by 7%. For a knocking engine the cooling is more effective when power is increased by 16%. The temperature effect disappeared at 2600 rpm. Using 8-mm tubing, compressed air at 1 kg/cm² pressure produced a 50C cooling, and at 2 kg/cm² it produced a 100C cooling at 3000 rpm. Since both efficiency and valve life were increased, the tests should be continued for engines with compressors (such as the ZIL-130 automobile engine). To study the thermal conductivity effect of the valve sleeve, three sleeves were tested: the standard powdered metal type of the MZMA-408 engine, the cast iron type of the ZIL-130 car engine, and the bronze sleeve. The maximum temperature change of 25C for the bronze sleeve showed the effect to be insignificant. Orig. art. has: 3 figures.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001

Card 2/2

Measuring the temperature of the antifriction layer of connecting rod tashes. Avt. prom. 31 nc.1:3-5 Ja '64.

1. Moskovskiy avtomekhanicheskiy institut.

(MIRA 18:3)

Heat transfer to the cooling water in the MZMA automobile engine with small cylinder capacity by external characteristics. Izv. vys.ucheb.zav.; mashinostr. no.5:91-100 '62. (MIRA 15:10)

1. Moskovskiy avtomekhanicheskiy institut. (Automobiles—Engines—Cooling)

KOSTROV, A.V., kand. tekhn. nauk; KUNYAVSKIY, B.M.

Effect of cooling-water temperature on the thermal conditions of parts of motor-vehicle engines. Avt. prom. 31 nc.9:3-5 S '65.

(MIRA 18:9)

1. Moskovskiy avtomekhanicheskiy institut.

KCSTROV, A.V., kand.tekhn.usuk

Value of the coefficient of heat transfer in determining the temperature of the piston of an internal combustion engine.

Avt.prom. 31 no.5:4-7 My \*65. (MIRA 18:5)

1. Moskovskiy avtomekhanicheskiy institut.

KOSTROV, A.V.; KUNYAVSKIY, B.M.

Temperature conditions of the piston of the MZMA-407 engine. Avt. prom. 29 no.8:5-7 Ag '63. (MIRA 16:11)

1. Moskovskiy avtomekhanicheskiy institut.

KOSTROV, A.V., kand. tekhn. nauk; KUNYAVSKIY, B.M.

Temperature of the outlet valve of the MZMA-407 engine.
Avt. prom. 30 no.5:3-5 My '64. (MIRA 17:9)

1. Moskovskiy avtomekhanicheskiy institut.

KOSTROV, B: D.

Metal Cutting

Study of heat phenomena in metal cutting, Stan. i instr. 24, No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

Nen pro	w method for stu om. no.7:40-41 J	dying the strengt	h of lathes. Av	t. i trakt. (MLRA 9:10)		
1.	1. Gor'kovskiy politekhnicheskiy institut imeni Zhdanova. (Lathes)					

SOV/115-58-5-4/36

AUTHOR:

Kostrov, B.D. and Yudin, S.P.

TITLE:

An Electrified Pneumatic Micrometer with Fluid Pressure Gauge (Elektrifitsirovænyy pnevmaticheskiy mikromer s

zhidkostnym manometrom)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 5, pp 10-11 (USSR)

ABSTRACT:

The paper describes the electrification of a pneumatic micrometer developed in the Polytechnic Institute, Gorkiy having a fluid pressure gauge with a 500-1000 mm water column. In order to avoid electrolysis a 1.5% solution of bicarbonate of soda is used as the pressure gauge liquid. The circuit consists of a transmitter, amplifier, power source and signal assembly. The transmitter converts jumps in the fluid level into electrical signals. It consists of three conductors of varying lengths within the water column in the glass container. The circuit contains three identical amplifiers, with an RKN electromagnetic relay in the anode circuit. When one of the wires

Card 1/2

SOV/115-58-5-4/36 An Electrified Pneumatic Micrometer with Fluid Pressure Gauge

touches the water the negative grid voltage of the corresponding tube is decreased, the tube conducts and the relay closes. The signal system consists of four signal lamps, the relay contacts and a testing switch. Closing of one of the relays lights one of the lamps, and thus readings of discrete levels of the water column are obtained. In the unit described the signals serve only to light the lamps, but such a unit could also be used for automatic control of technological processes. There is 1 circuit diagram.

Card 2/2

L 8394-65 ENT(d)/ENT(m)/ENP(r) AFMD(t)/ASD(f)/AEDC(a)/ASD(a)-5/ESD(c)/ESD(gs)/ESD(t)/RAEF(t)

ACCESSION NR: AP4048722

5/0179/64/000/004/0054/0062

AUTHOR: Kostrov, B. V. (Moscow)

B

TITLE: Self-modeling dynamic problems concerning rigid stamp impressions in an electric half space

Plastic nail of

SOURCE: AN SSSR. Izvostiya. Mckhanika i mashinostroyoniye, no. 4, 1964, 54-62

TOPIC TAGS: elasticity theory, solid mechanics, surface wave

24

Abstract: The solution of dynamic contact problems in the theory of elasticative entails very much more serious mathematical difficulties, than the solution of similar static problems. Only solutions for stamps which have the shape of a half-plane or band are known from dynamic problems (FLIMAN, L. M. Prikladnaya Matematika i Mekhanika, T. XXIII, No. 4, 1959 and T. XXVI, No. 6, 1962). The priblem of a stamp circular in plan (BOROMACHEV, N. M., Izv. AN SSSR, Offic Mekhanika i Mashinostroyeniye, No. 4, 1960), results in a Fredholm equation which is then solved numerically. In the present article solutions of problems concerning constant-speed impressions in an elastic half-

Card 1/2

L 8394-65
ACCESSION NR: AP4048722

space with wedge- or cone-shaped stamps are presented. Precise solutions in quadratures are obtained and equivalent stresses beneath stamps are calcu-

quadratures are obtained and equivalent stresses beneath stamps are calculated. It is shown that the problems raised are correct only for the conditions that the edge of the contact region varies over the surface of the half-space with a speed less than the speed of Rayleigh surface waves, for which only the case when the speed of the edge is less than the speed of transverse waves is investigated.

In conclusion the author remarks that the method applied for the solution of an axisymmetric problem in studies by A. YA. ALKHANDROV (for example, Prikledneys Matematiks I Mekhaniks, T. XXV No 5, 1961) is applicable to static problems in the theory of elacticity.

ASSOCIATION none

SUBMITTED: 14Mar64 ENCL: 00 SUB CODE: ME

NO REF SOV: 006 OTHER: 000 JPRS

Card 2/2

ACCESSION NR: APLO13384

s/0040/64/028/001/0099/0110

AUTHOR: Kostroy, R. V. (Moscow)

TITLE: Motion of a rigid massive strip sealed in an elastic medium subject to the effect of a plane wave

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 1, 1964, 99-110

TOPIC TAGS: elastic medium, strip motion, plane wave, dynamic elasticity theory, Wiener-Hopf-Fok method, transverse wave, moving strip, incident wave

ABSTRACT: The plane problem of motion of a rigid massive strip of finite constant width and infinite length in rigid contact with an infinite elastic medium with a plane wave impinging on it is reduced to two boundary value problems in dynamic elasticity theory for the half-space. Those are solved by the Wiener-Hopf-Fok method. The author obtains formulas for the components of perturbation and the angle of rotation of a strip which contain a finite number of quadratures for finite moments of time. "The author is grateful to N. V. Zvolinskiy for his attention to this work." Orig. art. has: 6 figures, 1 table, and 68 formulas.

Card 1/2

ACCESSION NR: AP4013364
ASSOCIATION: none
SUBMITTED: OLJul63 DATE ACQ: 26Feb64 ENCL: 00
SUB CODE: AI NO REF SOV: OO4 OTHER: 002

ACCESSION NR: AP4043286

8/0040/64/028/004/0644/0652

AUTHOR: Kostrov, B. V.

TITIE: Axialsymmetrical problem of the propagation of a crack at normal rupture

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 4, 1964, 644-652

TOFIC TAGS: crack propagation, normal rupture, crack propagation velocity, material strength

ABSTRACT: K. B. Bromberg (the propagation of brittle crack, arkiv. fys., 18, Hft 2, 1960) has solved the problem of nonstationary crack propagation in an elastic medium under the action of a homogeneous tension stress in a plane. The present author solves the same problem in space (axial symmetric case). Formulas are obtained for the displacement at the crack surface and for the stresses at the edge. It is shown that, as it is also true in the plane problem, the velocity of the crack propagation cannot exceed the velocity of the Rayleigh surface waves. An equation is obtained which determines the velocity of crack propagation. The author is grateful to N. V. Zvolinskiy, A. A. Guosdev, V. A. Afanas'er, and G. I. Barenblatt for helpful discussions. Orig. art. has: 1 figure and 37

Card 1/2

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Self-similarity problems involving the propagation of cracks in a tangential rupture. Prikl. mat. i mekh. 28 no.5:889-898 S-0 '64. (MIRA 17:11)

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-R

CIA-RDP86-00513R000825230002-9

ACCESSION NR: AP4038616

\$/0109/64/009/004/0649/0659

AUTHOR: Kostrov, B. V.; Nefedov, Ye. I.

TITLE: Diffraction by a wide slit in a wide waveguide

SOURCE: Radiotekhnika i elektronika, v. 9, no. 4, 1964, 649-659

TOPIC TAGS: waveguide, wide waveguide, transmission line, planar transmission line, flat strip transmission line

ABSTRACT: The problem of incidence of the dominant mode, in a planar narrow waveguide, on a wide slit is solved in a general form by a method of successive diffractions. The normal field derivative  $u^*(x, 0)$  at the slit is found by successive diffractions, each of them being determined by the Wiener-Hopf-Fock method. Amplitudes of the waves that pass by the slit and return are determined from exact formulas of the theory of waveguide excitation. Finally, an asymptotic presentation of the solution suitable for (ka), kL, (ka), where  $k = 2\pi/\lambda$ , (ka) is

Card 1/2

ACCESSION NR: AP4038616

a characteristic dimension of the waveguide cross-section, is given. "In conclusion, the authors consider it their pleasant duty to thank B. Z. Katsenelenbaum for his attention to the work and discussing the results." Orig. art. has: 4 figures and 37 formulas.

ASSOCIATION: Institut fiziki Zemli im. O. Yu. Shmidta (Institute of Physics of the Earth); Institut radiotekhniki i elektroniki AN SSSR (Institute of Radio Engineering and Electronics, AN SSSR)

SUBMITTED: 26Feb63

DATE ACQ: 05Jun64

ENCL: 00

SUB CODE: EC

NO REF SOV: 006

OTHER: 006

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825230002-9"

KOSTROV, B.V.; NEFEDOV, Ye.I.

Diffraction on a wide slot in a wide waveguide. Radiotekh. i elektron. 9 no.4:649.659 Ap 164. (MIRA 17:7)

1. Institut fiziki Zemli imeni O.Yu. Shridta AN SSSR i Institut radiotekhniki i elektroniki AN SSSR.

L 29990-65 EWT(1)/EWA(h) Peb GW ACCESSION NR: AP5001049

S/0049/64/000/011/1688/1692

AUTHOR: Kostrov, B.V.

TITLE: Elastic waves accompanying the propagation of a brittle shearing stress fracture

SOURCE: AN SSSR. Izvestiya. Seriya geofizicheskaya, no. 11, 1964, 1688-1692

TOPIC TAGS: seismology, seismic wave, seismic modeling, earthquake, earthquake focus, Rayleigh wave

ABSTRACT: The problem of a mathematical model of an earthquake focus has received considerable attention, but the search for point sources equivalent to earthquake foci with respect to the seismic waves emanating from them has been based solely on observational data and intuitive concepts, since the solution of dynamic problems in the theory of elasticity involved in attempts to take into account the characteristics of motion at an earthquake focus on the basis of any hypothesis meets with insuperable mathematical difficulties. However, some recent successes in the theory of the diffraction of elastic waves has led to some progress in the solution of such problems. In particular, L.M. Flitman (Prikl. matem. i mekhan., 27, No. 4, 1963) has presented a solution for the plane problem of instantaneous formation of a fracture of finite width in a medium subjected to uniform shear. The author of this article has considered this problem further Cord 1/2

L 29990-65

ACCESSION NR: AP5001049

(Prikl. matem. i mekhan., 28, No. 5, 1964), but formulated it differently in that it was assumed that the fracture is propagated from a point at a constant velocity, rather than considering the formation of the fracture to be instantaneous. In this new investigation of this problem, it is assumed that a shearing stress fracture propagating in an elastic medium can be considered to be a model of an earthquake focus; on the basis of his earlier study, an investigation is made of the field of elastic disturbances generated by such a source. The theoretical development of this problem is presented, followed by a brief comparison with a number of earthquake focus models described in the literature. Orig. art. has: 22 formulas.

ASSOCIATION: Institu fiziki Zemli, Akademiya nauk SSSR (Earth physics institute, Academy of sciences, SSSR)

SUBMITTED: 08May64 ENCL: 00

SUB CODE: ES

NO REF SOV: 006 OHTER: 003 िक्षी पर भी विभाग के प्राप्त कर प्राप्त कर प्राप्त कर प्राप्त कर कर प्राप्त कर कर प्राप्त कर कर कर कर कर कर कर अब कर, कर कर पर क्षेत्र कर कर कर के अध्यक्षित कर प्राप्त कर कर कर कर के प्राप्त कर कर कर कर कर कर कर कर कर कर

Card

KOSTROV, B.V.; NEFEDOV, Ye.I.

Asymptotic representation of the solution of a problem on diffraction on a wide slit in a wide waveguide. Radiotekh. i elektron. 9 no.8:1496-1500 Ag 164.

1. Institut fiziki Zemli im. C.Yu.Shmidta AN SSSR i Institut radio-tekhniki i elektroniki AN SSSR.

KOSTROV, B.V.

Elastic waves accompanying the propagation of a brittle crack of a tangential dislocation. Izv. AN SESR, Ser. geofiz. no.11:1688-1692 N 164. (MIRA 17:12)

1. Institut fiziki Zemli AN SSSR.

KOSTROV, B.V. (Moskva)

Diffraction of an elastic wave on a solid strip soldered onto an infinite elastic medium. Prikl. mat. 1 makh. 28 no.6: 1092-1100 N-D 164 (MIRA 18:2)

L 21830-66 EWA(h)/EWP(k)/EWT(c	SOURCE CODE: UR	/0040/66/030/001/0198/0203	3
ACC NR: AP6007589			
AUTHOR: Kostrov, B. V. (Moscow)		75	
DRG: none		<b>8</b>	
PITLE: Diffraction of a plane wave infinite elastic media	e on a rigid wedge inse	rted without friction into	0
SOURCE: Prikladnaya matematika i	mekhanika, v. 30, no. 1	, 1966, 198-203	
500mozi			
TOPIC TAGS: shock wave diffraction	n, elastic fluid, wave	equation, acoustic wave	
TOPIC TAGS: shock wave diffraction  ABSTRACT: Consider an elastic med  transverse wave propagation veloci	n, elastic fluid, wave ium with shear modulus ties a and b, filling t	equation, acoustic wave $\mu$ with longitudinal and he space $r \geq 0$ , conditions	
TOPIC TAGS: shock wave diffraction  ABSTRACT: Consider an elastic med  transverse wave propagation veloci	ium with shear modulus ties a and b, filling t id wedge with boundary $t_{r,s} = 0$ at $0 = 0$ , $\pi/k$ .	equation, acoustic wave $\mu$ with longitudinal and he space $r \geq 0$ , conditions $0 < r < \infty$ the solid wedge, it is	<b>T</b>

L 21830-66

ACC NR: AP6007589

0

 $H(\tau)$ . The required longitudinal and transverse potentials are then divided into two components: the incident wave and the reflected and diffracted waves. Thus, the incident longitudinal wave is expressed by

 $\phi = H\left(\frac{at}{r} + \cos\left(\theta - \theta_0\right)\right) + \phi_3, \quad \phi = \psi_1,$ 

and the longitudinal wave by

 $\varphi = \varphi_1, \quad \psi = H\left(\frac{bt}{r} + \cos\left(\theta - \theta_0\right)\right) + \psi_1.$ 

Each case is solved separately, and it is shown that the results coincide with acoustic solutions if the incident wave (ray) is directed along the wedge bisector. The asymptotic expressions are also calculated for the displacement near the diffracted wave. Orig. art. has: 24 equations and 4 figures.

SUB CODE: 20/ SUBM DATE: O8Sep65/ ORIG REF: 004/ OTH REF: 001

Card 2/2

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# "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825230002-9

L 38709	-66 EWT(1)		COLDOR CODE	UR/000/65/000/000/0432/0	0443/
	AT6016916	<b>(N)</b>			35
AUTHOR:	Zvolinskiy, N	. V.; Flitman	L. M.; Kostrov, B.	V.; Afanas'yev, V. A.	B11

ORG: Institute of Physics of the Earth, AN SSSR, Moscow (Institut fiziki Zemli AN SSSR); Institute of Problems of Mechanics, Academy of Sciences, SSSR (Institut problem mekhaniki Akademii nauk SSSR)

meknaniki akademii maua saan,
TITLE: Some problems in the diffraction of elastic waves

SOURCE: International Symposium on Applications of the Theory of Functions of Continuum Mechanics. Tiflis, 1963. Prilozheniya teorii funktsiy v mekhanike sploshnoy sredy. t. 1: Hekhanika tverdogo tela (Applications of the theory of functions in continuum mechanics. v. 1: Mechanics of solids); trudy simpoziuma. Moscow, Izd-vo Nauka, 1965, 432-443

TOPIC TAGS: elasticity theory, partial differential equation, integral equation, boundary value problem, approximate solution

ABSTRACT: Three problems are studied: (1) That of waves formed in an elastic medium as a result of momentary disturbance of the continuum along an infinitely long plane strip of finite width. The dynamic equations of elasticity theory are solved under boundary value conditions corresponding to time with initial conditions zero. The problem is shown to be reducible to the Wiener-Hopf problem; (2) The problem of motion under the action of a plane wave of a solid infinite strip in an elastic space. This

Card 1/2

Card 2/2510

ACC NR: AP7001997

SOURCE CODE: UR/0040/66/030/006/1042/1049

AUTHOR: Kostrov, B. V. (Moscow)

ORG: none

TITLE: Nonstationary propagation of a longitudinal shear crack

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 6, 1966, 1042-1049

TOPIC TAGS: crack formation, shear stress, stress analysis

ABSTRACT: A method of analysis developed in the theory of compressible supersonic flow is applied to the solution of the problem on the propagation of a longitudinal shear crack for the two-dimensional case when displacement is parallel to the edge of the crack. It is assumed that the elastic medium outside the crack is infinite, has a shear modulus of  $\mu = 1$  and a velocity of transverse wave propagation b = 1. It is further assumed that all of the forces on the medium are directed along the longitudinal axis and are constant along the axis. In this case the strain vector and the stress tensor are independent of the longitudinal coordinate. A series of equations are derived which make it possible, in principle, to investigate the propagation of a longitudinal shear crack for arbitrary loading and for any interval of time if the variation in the modulus of coupling as a function of crack propagation rate is known.

**Card 1/2** 

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L 44697-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T/EWP(v)/EWP(t)/ETI IJP(c) DJ/JD/WB

ACC NR. AR6010657 SOURCE CODE: UR/0276/65/000/010/B185/B185

AUTHOR: Kostrov, G. V,

548 S

TITLE: Effect which surface-active substances in the coolant have on the grinding process

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 10B1261

REF SOURCE: Tr. Seminara po vopr. progressivn. metodov shlifov. i dovodki detaley, obespech. vysok. i stabil'n. tochnost' i dolgovechn. podshipnikov kacheniya. M., 1964, 183-190

TOPIC TAGS: grinding, bearing race, antifriction bearing, surface active agent, metal finishing, OLEIC ACID

ABSTRACT: It is established that the soda solution used as a coolant on the <u>1GP3</u> with a 0.01-1% concentration of calcined soda and a 0.3% concentration of sodium nitrate is not surface-active. Experimental investigation of the operation of ground races in bearing rings showed that the use of oleic acid (commercial grade, i. e. not extremely pure) in an aqueous solution of triethanolamine or in <u>mineral oils</u> improves surface finish by 2-3 classes and eliminates burn streaks on the rings during grinding. The relatively stronger effect of oleic acid as an adsorbing material shows up in small concentrations (0.2-1%). The lowest power consumption and highest grinding wheel sta-

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UDC: 621.923:621.822:621.9.079

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bility are observed at these concentrations. A further increase in oleic acid concentration reduced abrasive stability without improving the finish of the surface being gfround. 7 illustrations, bibliography of 4 titles. L. Tikhonova. [Translation of abstract]

SUB CODE: 13

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Card 2/2

KOSTROV, Ivan Mikolaevich

DOSTROV, Ivan Mikolaevich. The Madejdinsky& Taganro; metallurgical works; production of roafing iron. Moscow, 1929. 38 p., 1 l. (The chief concession committee of the Council of people's commissaries of the USSR.).

DIO: TS330. NcK612

SC: LC, Soviet Geography, Part II, 1951, Unclassified

Kostrov, Ivan Nikolaevich The machanization of labor consuming work on the construction of Volga hydro-electric stations Moskva Pravda 1951.

22 p. (52-24341) TA725.K6

KOSTROV, Iyan Nikolayevich; SURZHANNNKO, A.Ye., inzhener, redaktor; UDOD, V.la., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor [The operator-motorman for spray painting machinery] Operatormotorist okrasochnogo agregata. Moskva, Gos. izd-vo lit-ry po stroitelistvu i arkhitekture. 1955. 47 p. (MLRA 8:7)

stroitel stvu i arkhitekture, 1955. 47 p.

(Spray painting)

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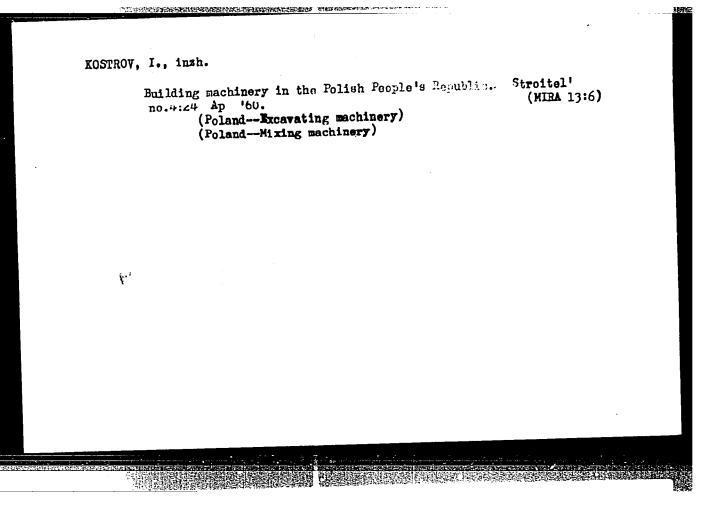
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KOSTROV, I.E., inshener, laureat Stalinskoy premii, redaktor; POPOV, V.I., redaktor; VOLKOV, V.S., tekhnicheskiy redaktor.

[Barthwork; collection of articles] Proizvodstvé semlianykh rabot; sbornik statei. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, (MIRA 9:6) 1956. 102 p.

1. Moscow. Vsesoyusnyy nauchno-issledovateliskiy institut organisatsii i mekhanisatsii stroitelistva. (Barthwork)

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SHESTOPALOV, Aleksandr Osipovich, kand. tekhn. nauk; BONDARENKO, Viktor Ivanovich, inzh.; KOSTROV, I.N., inzh., retsenzent; ENGEL¹, F.F., inzh., nauchnyy red.; GENKIN, Ye.M., red.; SEMUSHKIN, I.S., tekhn. red.

[Lowering the water level in the construction of the Volga Hydroelectric Power Station (22d Congress of the CPSU)] Vodoponizhenie na stroitel'stve Volzhskoi gidroelektrostantsii doponizhenie xXII s''ezda KPSS. Moskva, Gidroproekt, 1962. 86 p. (MIRA 17:4)

USSR/Soil Science. Mineral Fertilizers

J

Abs Jour

: Ref Zhur-Biol., No 13, 1958, 58302, By Z.I.

Zhurbitskiy

Author

: Nikitenko G. F., Klochkovæ M. A., Kostrov K. A.

: Not given

Inst Title : On the Effectiveness of Mixtures of Organic and

Mineral Fertilizers in Chernozem Soils

Orig Pub : Agrobiologiya, 1957, No 3, 16-22

Abstract

: The effectiveness of organo-mineral mixtures was tested on agrillaceous chernozem in the Mordovsk Experimental Agricultural Station in 1954-1956. A yield of 26.7 centners of winter wheat per hectare was obtained in 1955, a very favorable year; the addition of 20 tons of manure produced an additional yield of 6.2 centners per hectare; of 3 tons of humus—an additional 6.7 centners

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Card 2/2

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

M-5

Abs Jour : Ref

: Ref Zhur - Biol., No 7, 1958, 29955

Author

Kostrov, Kal

Inst

: The Agrotechny of Sugar Beet Cultivation in Moldavia.

Title

Orig Pub

: S. kh. Povolzh'ya, 1957, No 9, 44-46.

Abstract : No abstract.

Card 1/1

- 37 -

# UMPPROMED FOR REDEASE: 96/1472000 CIA-RDP86-00513R000825230002-

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58489

Author

: Klochkov, Λ. M.; Kostrov, K. Λ.; Koval\*chuk, P. Λ.

Inst

: Not given

Title

: Occupied Fallows in Mordoviya

Orig Pub

: S.-kh. Povolzhya, 1957, No 12, 13-15

Abstract

: No abstract given

Card 1/1